

# ABR-Scan Science Week 44-45

## Unit for Antibiotics and Infection Control

*This biweekly ABR-Scan is compiled by the Unit for Antibiotics and Infection Control at the Public Health Agency of Sweden (PHAS). It includes a summary of links to recent peer-reviewed articles mainly from a selection of 17 scientific journals, which are listed at the bottom of the document. The articles are sorted according to the following categories: surveillance, treatment and diagnosis, prevention and intervention, microbiology and other. Please note that the information and views set out in the articles included are those of the author(s) and do not necessarily reflect the official opinion of PHAS. Please send an e-mail to [ABR-scan@folkhalsomyndigheten.se](mailto:ABR-scan@folkhalsomyndigheten.se) if you would like to subscribe, unsubscribe or submit any comments or suggestions.*

### Surveillance

Over-the-counter antibiotic dispensing by pharmacies: a standardised patient study in Udupi district, India. [BMJ Global Health](#)

Trends in prevalence of healthcare-associated infections and antimicrobial use in hospitals in the Netherlands: 10 years of national point-prevalence surveys. [Journal of Hospital Infection](#)

Dwindling Utilization of Central Venous Catheter Tip Cultures: An Analysis of Sampling Trends and Clinical Utility at 128 US Hospitals, 2009–2014. [Clinical Infectious Diseases](#)

Extended-spectrum  $\beta$ -lactamase-producing *Escherichia coli* in human-derived and foodchain-derived samples from England, Wales, and Scotland: an epidemiological surveillance and typing study. [Lancet Infectious Diseases](#)

High prevalence of macrolide-resistant *Bordetella pertussis* and *ptxP1* genotype, mainland China, 2014–2016. [Emerging Infectious Diseases](#)

### Treatment and diagnosis

Opportunities to reduce antibiotic prescribing for patients with COPD in primary care: a cohort study using electronic health records from the Clinical Practice Research Datalink (CPRD). [Journal of Antimicrobial Chemotherapy](#)

$\beta$ -Lactam pharmacodynamics in Gram-negative bloodstream infections in the critically ill. [Journal of Antimicrobial Chemotherapy](#)

Continuous versus intermittent infusion of cefotaxime in critically ill patients: a randomized controlled trial comparing plasma concentrations. [Journal of Antimicrobial Chemotherapy](#)

A Collaborative Multicenter QI Initiative To Improve Antibiotic Stewardship in Newborns. [Pediatrics](#)

Urine dipstick low sensitivity for UTI diagnosis in febrile infants. [Infectious Diseases](#)

Late-career Physicians Prescribe Longer Courses of Antibiotics. [Clinical Infectious Diseases](#)

## Microbiology

Time trend of prevalence and susceptibility to nitrofurantoin of urinary MDR *Escherichia coli* from outpatients. [Journal of Antimicrobial Chemotherapy](#)

Activity of imipenem/relebactam against carbapenemase-producing Enterobacteriaceae with high colistin resistance. [Journal of Antimicrobial Chemotherapy](#)

Rapid detection of antibiotic resistance in positive blood cultures by MALDI-TOF MS and an automated and optimized MBT-ASTRA protocol for *Escherichia coli* and *Klebsiella pneumoniae*. [Infectious Diseases](#)

Toxin Enzyme Immunoassays Detect *Clostridioides difficile* Infection With Greater Severity and Higher Recurrence Rates. [Clinical Infectious Diseases](#)

Drug-Resistant *E. coli* Bacteremia Transmitted by Fecal Microbiota Transplant. [NEJM](#)

A necessary discussion after transmission of multidrug-resistant organisms through faecal microbiota transplantations. (Comment) [Lancet Infectious Diseases](#)

## Other

Development of quality indicators for the management of *Staphylococcus aureus* bacteraemia. [Journal of Antimicrobial Chemotherapy](#)

The 2019 Garrod Lecture: MDR efflux in Gram-negative bacteria—how understanding resistance led to a new tool for drug discovery. [Journal of Antimicrobial Chemotherapy](#)

Improving the estimation of the global burden of antimicrobial resistant infections. [Lancet Infectious Diseases](#)

Thinking outside the box: Association of antimicrobial resistance with climate warming in Europe - A 30 country observational study. [International Journal of Hygiene and Environmental Health](#)

Minutes of the Antimicrobial Resistance One Health Network meeting 15 October 2019. [European Commission/DG-SANTE](#)

*The publications included in the scan are: Antimicrobial Agents and Chemotherapy, British Medical Journal (BMJ), Clinical Infectious Diseases, Clinical Microbiology and Infection, Emerging Infectious Diseases, Eurosurveillance, Infection Control & Hospital Epidemiology, Infectious Diseases, The Journal of the American Medical Association (JAMA), Journal of Antimicrobial Chemotherapy, Journal of Hospital Infection, Journal of Infectious Diseases, Lancet, Lancet Infectious Diseases, New England Journal of Medicine, Pediatrics and Scandinavian Journal of Primary Health Care. Articles and materials from other publications may also be included.*